Test for discrete math:

Make a truth table (break down a statement into steps and show each step.

1. 
2. 

Tell the negation of a statement \*

1. The number is prime and odd
2. Every number in the set is either even or a multiple of 5

Use a truth table to decide if two things are logically equivalent

Use a truth table to decide if something is a tautology

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Show a Venn diagram for a set relationship

Break down making a Venn diagram into steps and show each step.

Use Venn diagrams to show/decide if two sets are the same

Prove that two sets are the same.

Prove predictable things about divisibility.

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Decide whether a relation is reflexive, symmetric and transitive

Figure out the equivalence class of an element given a relation\*

Figure out the number of equivalence classes of an element given a relation.\*

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Figure out if a function is 1-1 and onto

Prove that a composition is 1-1 and/or onto\*

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Do computations with mod number congruence classes.\*